



Contribution ID: 37

Type: **not specified**

Experiment-machine interface issues and signal exchange

Wednesday 19 January 2005 11:35 (15 minutes)

This report provides an overview of issues arising at the interface between the LHC machine and the experiments. These issues will be required to guide the interaction between the collider and the experiments when operation of the LHC commences. In particular, the analysis of signals and parameters to be exchanged between the experiments and the accelerator will be presented. Emphasis will be placed on observables that can provide a measure of the LHC machine operating conditions for the experiments and that can be used by the experiments to give feedback to the machine operation as well as to protect their detectors against damage from spurious operating conditions of the machine.

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Session Classification: Session 5 - Other Issues affecting Beam Commissioning II

Track Classification: Other Issues affecting Beam Commissioning II